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Jun. 27, 2000

Creatine amidinohydrolase, production thereof and use
thereof

REISSUE: Reissue Application filed Aug. 28, 2001 (O.G. Nov. 27, 2001) Ex. Gp.:
1652; Re. S.N. 09/940,941

INVENTOR: Sogabe, Atsushi, Tsuruga, Japan
Hattori, Takashi, Tsuruga, Japan
Nishiya, Yoshiaki, Tsuruga, Japan
Kawamura, Yoshihisa, Tsuruga, Japan

ASSIGNEE-AT-ISSUE: Toyo Boseki Kabushiki Kaisha, Osaka, Japan (03)

APPL-NO: 799,897

FILED: Feb. 13, 1997

FOR-PRIOR:
Feb. 13, 1996 Japan 8-025435

INT-CL: [7]. C12Q 1#34; C12N 9#78; C12N 1#20; C12N 1#00

US-CL: 435#18; 435#227; 435#192; 435#252.3; 435#320.1; 435#829; 435#252.33

CL: 435

SEARCH-FLD: 435#18, 227, 252.1, 320.1, 829, 192, 252.3, 252.33

REF-CITED:

U.S. PATENT DOCUMENTS

3,806,420	4/1974	*	Holz et al.	195#66
3,907,644	9/1975	*	Mollering et al.	195#99
5,451,520	9/1995	*	Furukawa et al.	435#227

FOREIGN PATENT DOCUMENTS

6080553 OR 6,080,553

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PLUS PAT
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1/1 PLUSPAT - (C) QUESTEL-ORBIT
PN - US6080553 A 20000627 [US6080553]
TI - (A) Creatine amidinohydrolase, production thereof and use thereof
PA - (A) TOYO BOSEKI (JP)
IN - (A) SOGABE ATSUSHI (JP); HATTORI TAKASHI (JP); NISHIYA YOSHIAKI (JP); KAWAMURA YOSHIHISA (JP)
AP - US79989797 19970213 [1997US-0799897]
PR - JP2543596 19960213 [1996JP-0025435]
IC - (A) C12N-001/00 C12N-001/20 C12N-009/78 C12Q-001/34
EC - C12Q-001/34
- G01N-033/52
PCL - ORIGINAL (O) : 435018000; CROSS-REFERENCE (X) : 435192000 435227000 435252300 435252330 435320100 435829000
DT - Corresponding document
CT - US3806420; US3907644; US5451520; JP62091182; JP07265074
STG - (A) United States patent
AB - A creatine amidinohydrolase having the following physicochemical properties:
Action: catalyzing the following reaction;
- creatine+H₂O --> sarcosine+urea
Optimum temperature: about 40-50 (degree) C.
Optimum pH: pH about 8.0-9.0
Heat stability: not more than about 50 (degree) C. (pH 7.5, 30 min)
Km value for creatine in a coupling assay using a sarcosine oxidase and a peroxidase: about 3.5-10.0 mM
Molecular weight: about 43,000 (SDS-PAGE)
Isoelectric point: about 3.5,
a method for producing said enzyme, comprising culture of microorganism producing said enzyme, a method for the determination of creatine or creatinine in a sample using said enzyme, and a reagent therefor.
UP - 2000-26

1/1 LGST - (C) LEGSTAT
PN - US 6080553 [US6080553]
AP - US 799897/97 19970213 [1997US-0799897]
DT - US-P
ACT - 19970213 US/AE-A
APPLICATION DATA (PATENT)
{US 799897/97 19970213 [1997US-0799897]}
- 20000627 US/A
PATENT
- 20011127 US/RF
REISSUE APPLICATION FILED
20010828
UP - 2001-49

1/1 CRXX - (C) CLAIMS/RRX
PN - 6,080,553 A 20000627 [US6080553]
PA - Toyo Boseki K K JP
ACT - 20010828 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20011127
REISSUE REQUEST NUMBER: 09/940941
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1652

Reissue Patent Number:

Search statement 2

?FILE INPADOC

PLUSPAT - Time in minutes : 1,23
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standard price list

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Estimated total session cost :	4.97 USD

LGST - Time in minutes : 0,12
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Records displayed and billed :	1
Estimated cost :	0.57 USD
Cost estimated for the last database search :	0.70 USD
Estimated total session cost :	5.67 USD

CRXX - Time in minutes : 0,11
The cost estimation below is based on Questel's
standard price list

Estimated cost :	0.16 USD
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Cost estimated for the last database search :	5.16 USD
Estimated total session cost :	10.83 USD

PAST - Time in minutes : 0,03
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Cost estimated for the last database search :	0.05 USD
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LITA - Time in minutes : 0,03
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Estimated cost :	0.05 USD
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Search statement 1

?FAM US6080553/PN

1 Patent Groups

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Search statement 2

?FAMSTATE NONSTOP

1/6 INPADOC - (C) INPADOC

PN - EP 1132467 A2 20010912 [EP1132467]

TI - NOVEL CREATINE AMIDINOHYDROLASE, PRODUCTION THEREOF AND USE THEREOF

LA - ENG

IN - SOGABE ATSUSHI [JP]; HATTORI TAKASHI [JP]; NISHIYA YOSHIAKI [JP];
KAWAMURA YOSHIHISA [JP]

PA - TOYO BOSEKI [JP]

AP - EP 1113052/01-A 19970213 [2001EP-1113052]

PR - EP 97102270/97-A3 19970213 [1997EP-0102270]

- JP 25435/96-A 19960213 [1996JP-0025435]

IC - C12N-009/78; C12N-009/80; C12Q-001/34

DS - DE* FR* GB* IT*

1/2 LEGALI - (C) LEGSTAT

PN - EP 1132467 [EP1132467]

AP - EP 01113052/01 19970213 [2001EP-0113052]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 01113052/01 19970213 [2001EP-0113052]}

- 20010912 EP/AC-P

DIVISIONAL APPLICATION (ART. 76) OF:

(EP 790303 20010912 [EP-790303])

- 20010912 EP/AK-A2 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:

DE FR GB IT

- 20010912 EP/A2 [+]

~~PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT~~

- 20011010 EP/AK-A3 [+]

DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:

DE FR GB IT

- 20011010 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

- 20011205 EP/17P [+]

REQUEST FOR EXAMINATION FILED

20011010

UP - 2001-51

2/2 LEGALI - (C) LEGSTAT

PN - EP 790303 [EP-790303]

AP - EP 97102270/97 19970213 [1997EP-0102270]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 97102270/97 19970213 [1997EP-0102270]}

- 19970820 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
DE FR GB IT
- 19970820 EP/A1 [+]
PUBLICATION OF APPLICATION WITH SEARCH REPORT
- 19980311 EP/RIN1
INVENTOR (CORRECTION)
SOGABE, ATSUSHI, TOYO BOSEKI K.K. * HATTORI, TAKASHI, TOYO BOSEKI K.K.
* NISHIYA, YOSHIKI, TOYO BOSEKI K.K. * KAWAMURA, YOSHIHISA, TOYO
BOSEKI K.K.
- 19980318 EP/17P [+]
REQUEST FOR EXAMINATION FILED
980114
- 19991103 EP/17Q [+]
FIRST EXAMINATION REPORT
19990920
- 20010808 EP/18W [-]
WITHDRAWN
20010608
- 20010912 EP/AH-P
DIVISIONAL APPLICATION (ART. 76) IN:
(EP 1132467 20010912 [EP1132467])

UP - 2001-37

2/6 INPADOC - (C) INPADOC

PN - EP 1132467 A3 20011010 [EP1132467]
TI - NOVEL CREATINE AMIDINOHYDROLASE, PRODUCTION THEREOF AND USE THEREOF
LA - ENG
IN - SOGABE ATSUSHI [JP]; HATTORI TAKASHI [JP]; NISHIYA YOSHIKI [JP];
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PA - TOYO BOSEKI [JP]
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- JP 25435/96-A 19960213 [1996JP-0025435]
IC - C12N-009/78; C12N-009/80; C12Q-001/34
DS - DE* FR* GB* IT*

1/2 LEGALI - (C) LEGSTAT

PN - EP 1132467 [EP1132467]
AP - EP 01113052/01 19970213 [2001EP-0113052]
~~DT - EP-P~~
ACTE- 19970213 EP/AE-A
EP-APPLICATION
{EP 01113052/01 19970213 [2001EP-0113052]}

- 20010912 EP/AC-P
DIVISIONAL APPLICATION (ART. 76) OF:
(EP 790303 20010912 [EP-790303])
- 20010912 EP/AK-A2 [+]
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- 20010912 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
- 20011010 EP/AK-A3 [+]
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- 20011010 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)
- 20011205 EP/17P [+]
REQUEST FOR EXAMINATION FILED
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2/2 LEGALI - (C) LEGSTAT

PN - EP 790303 [EP-790303]

AP - EP 97102270/97 19970213 [1997EP-0102270]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 97102270/97 19970213 [1997EP-0102270]}

- 19970820 EP/AK-A1 [+]

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DE FR GB IT

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INVENTOR (CORRECTION)

SOGABE, ATSUSHI, TOYO BOSEKI K.K. * HATTORI, TAKASHI, TOYO BOSEKI K.K.

* NISHIYA, YOSHIKI, TOYO BOSEKI K.K. * KAWAMURA, YOSHIHISA, TOYO

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980114

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DIVISIONAL APPLICATION (ART. 76) IN:

(EP 1132467 20010912 [EP1132467])

UP - 2001-37

3/6 INPADOC - (C) INPADOC

PN - EP 790303 A1 19970820 [EP-790303]

TI - NOVEL CREATINE AMIDINOHYDROLASE, PRODUCTION THEREOF AND USE THEREOF

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IN - SOGABE ATSUSHI [JP]; HATTORI TAKASHI [JP]; NISHIYA YOSHIKI [JP];

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IC - C12N-009/78; C12N-009/80; C12Q-001/34

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PN - EP 1132467 [EP1132467]

AP - EP 01113052/01 19970213 [2001EP-0113052]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 01113052/01 19970213 [2001EP-0113052]}

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DIVISIONAL APPLICATION (ART. 76) OF:

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DE FR GB IT

- 20010912 EP/A2 [+]

PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

- 20011010 EP/AK-A3 [+]

DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:

DE FR GB IT

- 20011010 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

- 20011205 EP/17P [+]

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2/2 LEGALI - (C) LEGSTAT

PN - EP 790303 [EP-790303]

AP - EP 97102270/97 19970213 [1997EP-0102270]

DT - EP-P

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EP-APPLICATION

{EP 97102270/97 19970213 [1997EP-0102270]}

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- 20010912 EP/AH-P

DIVISIONAL APPLICATION (ART. 76) IN:

(EP 1132467 20010912 [EP1132467])

UP - 2001-37

4/6 INPADOC - (C) INPADOC

PN - JP 3075390 B2 20000814 [JP3075390]

IN - SOGABE ATSUSHI; HATSUTORI TAKASHI; NISHA YOSHIKI; KAWAMURA YOSHIHISA

PA - TOYO BOSEKI

AP - JP 25435/96-A 19960213 [1996JP-0025435]

PR - JP 25435/96-A 19960213 [1996JP-0025435]

IC - C12N-009/78; C12N-015/09; C12N-009/78; C12R-001/05; C12N-009/78;

C12R-001/19; C12N-015/09; C12R-001/19

5/6 INPADOC - (C) INPADOC

PN - JP 9215494 A2 19970819 [JP09215494]
TI - NEW CREATINE AMIDINOHYDROLASE, ITS PRODUCTION AND ITS USE
IN - SOGABE ATSUSHI; HATTORI TAKASHI; NISHIYA YOSHIAKI; KAWAMURA YOSHIHISA
PA - TOYO BOSEKI
AP - JP 25435/96-A 19960213 [1996JP-0025435]
PR - JP 25435/96-A 19960213 [1996JP-0025435]
IC - C12N-009/78; C12N-015/09; C12N-009/78; C12R-001/05; C12N-015/09;
C12R-001/19

6/6 INPADOC - (C) INPADOC

PN - US 6080553 A 20000627 [US6080553]
TI - CREATINE AMIDINOHYDROLASE, PRODUCTION THEREOF AND USE THEREOF
IN - SOGABE ATSUSHI [JP]; HATTORI TAKASHI [JP]; NISHIYA YOSHIAKI [JP];
KAWAMURA YOSHIHISA [JP]
PA - TOYO BOSEKI [JP]
AP - US 799897/97-A 19970213 [1997US-0799897]
PR - JP 25435/96-A 19960213 [1996JP-0025435]
IC - C12Q-001/34; C12N-009/78; C12N-001/20; C12N-001/00

1/1 LEGALI - (C) LEGSTAT

PN - US 6080553 [US6080553]
AP - US 799897/97 19970213 [1997US-0799897]
DT - US-P
ACTE- 19970213 US/AE-A
APPLICATION DATA (PATENT)
{US 799897/97 19970213 [1997US-0799897]}
- 20000627 US/A
PATENT
- 20011127 US/RF
REISSUE APPLICATION FILED
20010828
UP - 2001-49

Search statement 2

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